

## IN THE CLAIMS

Claims 1-8 (cancelled).

9. (new) A method for decontamination of ground water, comprising:

leading into a reactor at an inlet contaminated ground water at a random height below ground water level;

conducting said contaminated ground water through a reaction chamber with at least one reaction agent for a required time period; and

discharging cleansed ground water at a required height out of said reactor;

wherein said height of said inlet is selected depending on pollutant type and pollutant location of said ground water.

10. (new) The method for decontamination of ground water according to claim 9, further comprising;

flowing said contaminated ground water into at least one feed line located in a zone of said inlet; and

flowing said contaminated ground water from said at least one feed line to said reactor; wherein said feed line extends horizontally from said reactor to said ground water;

wherein said reactor is located vertically into a bottom fond of the horizon carrying said contaminated ground water;

11. (new) The method for decontamination of ground water according to claim 9 further comprising:

wherein when said pollutants are heavier than water;

conducting said contaminated ground water to said reactor in a lower region; and

discharging cleansed ground water below said ground water level from an upper region of said reactor.

12. (new) The method for decontamination of ground water according to claim 9 further comprising:

wherein when said pollutants are lighter than water;

conducting said contaminated ground water to said reactor in an upper region below said ground water level;

for purposes of achieving a longer residence duration period in said reactor, directing said contaminated ground water downwards and then upwards along an intermediate wall that is open in a lower region of said reactor; and

discharging cleansed ground water.

13. (new) The method for decontamination of ground water according to claim 9 further comprising:

wherein when said pollutants are in a middle region of ground water carrying layer;  
conducting said contaminated ground water to said reactor in a middle region  
directing said contaminated ground water along an intermediate wall into an upper region  
of said reactor; and

discharging cleansed ground water below said ground water level.

14. (new) The method for decontamination of ground water according to claim 10  
wherein said at least one feed line is a perforated feed line.

15. (new) The method for decontamination of ground water according to claim 10  
wherein said at least one feed line is a gravel casing well.

16. (new) A reactor for decontaminating ground water in a well manufactured in a drop shaft  
comprising:

a reaction chamber for accommodating at least one reaction agent  
a reactor base;  
at least one feed line;  
at least one outlet line;  
wherein said outlet line is located below ground water level; and  
wherein said outlet line reaches said reactor base and is closed off below said ground  
water level.

17. (new) The reactor of Claim 16 further comprising:  
at least one intermediate wall;  
wherein said intermediate wall is open in an upward or a downward position.

18. (new) The reactor of Claim 16  
wherein at least two reactors are connected together.